

Title (en)
OIL SUPPRESSING STRUCTURE IN AIR DRYING DEVICE

Title (de)
ÖLUNTERDRÜCKUNGSSTRUKTUR IN EINER LUFTTROCKNUNGSVORRICHTUNG

Title (fr)
STRUCTURE DESTINÉE À SUPPRIMER L'HUILE DANS UN DISPOSITIF DE SÉCHAGE DE L'AIR

Publication
EP 2377597 A1 20111019 (EN)

Application
EP 10731279 A 20100114

Priority
• JP 2010050361 W 20100114
• JP 2009005398 A 20090114
• JP 2009175989 A 20090729

Abstract (en)
There is provided an oil suppressing structure in air drying device for removing oil contents or oil mist contained in compressed air which rises in an interior of the air drying device used in a vehicle compressed air brake system. An air drying device includes an outer case 21, a drying case 22 which is accommodated in an interior of the outer case 21, a base plate 23 which is fixed to a lower end portion 21a of the outer case 21, and an outer cover 24 which is fixed to a lower end portion 21a of the base plate 23. The drying case 22 has a large-diameter long cylindrical body portion 22A and a small-diameter long cylindrical body portion 22B, and a particulate desiccating agent 25 is filled in an interior of the large-diameter cylindrical body portion 22A. An oil adsorbing material 27 is a high-performance oil adsorbing member and is inserted to be placed in a space S3 defined between an inner wall surface of the outer case 21 and the small-diameter long cylindrical body portion 22B of the drying case 22.

IPC 8 full level
B01D 53/26 (2006.01); **B01D 46/00** (2006.01); **B01D 53/04** (2006.01); **B01D 53/72** (2006.01); **B60T 17/00** (2006.01)

CPC (source: EP US)
B01D 46/003 (2013.01 - EP US); **B01D 46/0036** (2013.01 - EP US); **B01D 46/10** (2013.01 - EP US); **B01D 53/0415** (2013.01 - EP US); **B01D 53/261** (2013.01 - EP US); **B01D 53/72** (2013.01 - EP US); **B60T 17/004** (2013.01 - EP US); **B01D 2253/104** (2013.01 - EP US); **B01D 2253/108** (2013.01 - EP US); **B01D 2253/202** (2013.01 - EP US); **B01D 2257/70** (2013.01 - EP US); **B01D 2259/4566** (2013.01 - EP US); **B01D 2275/202** (2013.01 - EP US)

Cited by
WO2017102960A1; US10723341B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2377597 A1 20111019; **EP 2377597 A4 20120725**; **EP 2377597 B1 20180530**; CN 102281937 A 20111214; CN 102281937 B 20150311; CN 104689690 A 20150610; CN 104689690 B 20200110; US 2011308393 A1 20111222; US 8663375 B2 20140304; WO 2010082610 A1 20100722

DOCDB simple family (application)
EP 10731279 A 20100114; CN 201080004659 A 20100114; CN 201510044903 A 20100114; JP 2010050361 W 20100114; US 201013144383 A 20100114